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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,838	03/23/2005	Shigeo Okuno	2005-0438A	8544
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021			EXAMINER	
			TORRES RUIZ, JOHALI ALEJANDRA	
			ART UNIT	PAPER NUMBER
			2838	
			MAIL DATE	DELIVERY MODE
			05/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

TH

	Application No.	Applicant(s)			
	10/528,838	OKUNO, SHIGEO			
Office Action Summary	Examiner	Art Unit			
	Johali A. Torres Ruiz	2838			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed he mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 23 Ma	arch 2005.				
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 23 March 2005 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examine 10.	a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/23/2005. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application 6) Other:					
S. Patent and Trademark Office					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C, 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Gali et al. (U.S. Patent Number Re. 35,643).
- 3. Claim 1: Gali teaches a method for removing membranous lead sulfate deposited on electrodes of a lead acid battery due to sulfation (Col.1, Lines 41-44), featured by using a pulse current having a short pulse width for dissolving the surface layer of said membranous lead surface deposited on said electrodes of said battery (Col.1, Lines 59-67) (Col.2, Lines 1-4) (Col.4, Lines 21-26) (It inherently has current).
- 4. Claim 2: Gali teaches the limitations of claim 1 as discussed above. Gali teaches charging said lead acid battery while or after applying said pulse current to said battery (Col.4, Lines 32-35), resolving the lead dissolved by applying said pulse current (Col1, Lines 18-20) (after the pulse dissolves the lead deposited on the electrode the lead resurfaces as lead dioxide).
- 5. Claim 3: Gali teaches the limitations of claim 1 as discussed above. It teaches wherein said pulse width is less than $1\mu s$ (Col.1, Lines 59-64) (Since it can be any value less than $5\mu s$ it could be less than $1\mu s$).

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6. Claim 4: Gali teaches the limitations of claim 2 as discussed above. It teaches wherein said pulse width is less than 1μ s (Col.1, Lines 59-64) (Since it can be any value less than 5μ s it could be less than 1μ s).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gelbman et al. (U.S. Patent number 6,184,650) discloses an apparatus for charging and desulfating a lead acid battery using pulse current.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johali A. Torres Ruiz whose telephone number is (571) 270-1262. The examiner can normally be reached on M- Alternating F 7:30am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on (571) 272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KARL EASTHOM SUPERVISORY PATENT EXAMINER